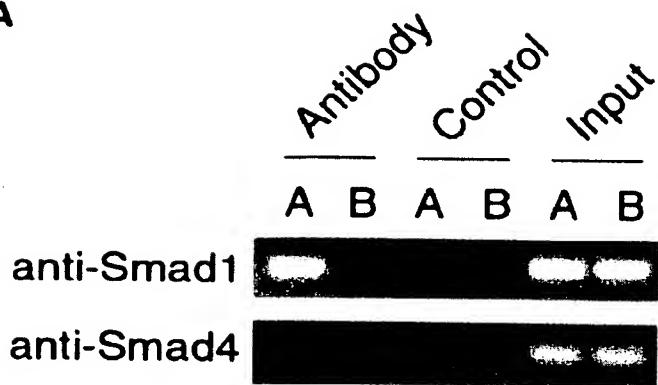
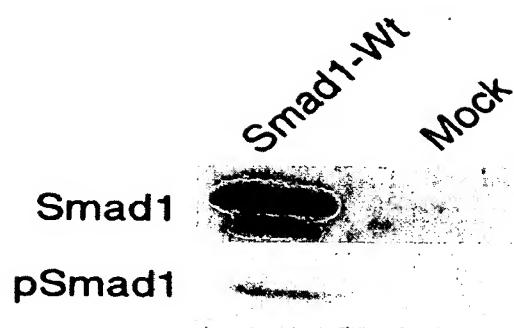


Fig. 1

A



B



C

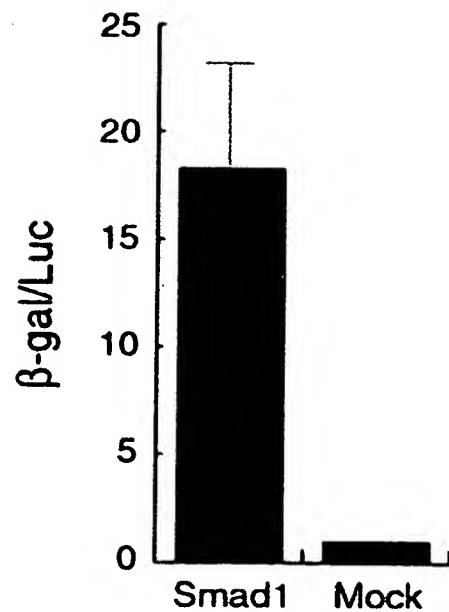
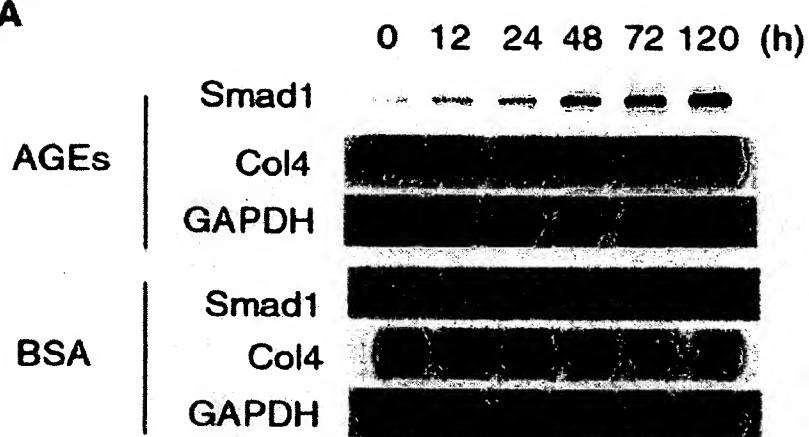


Fig. 2

A



B



C

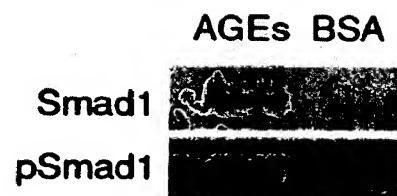
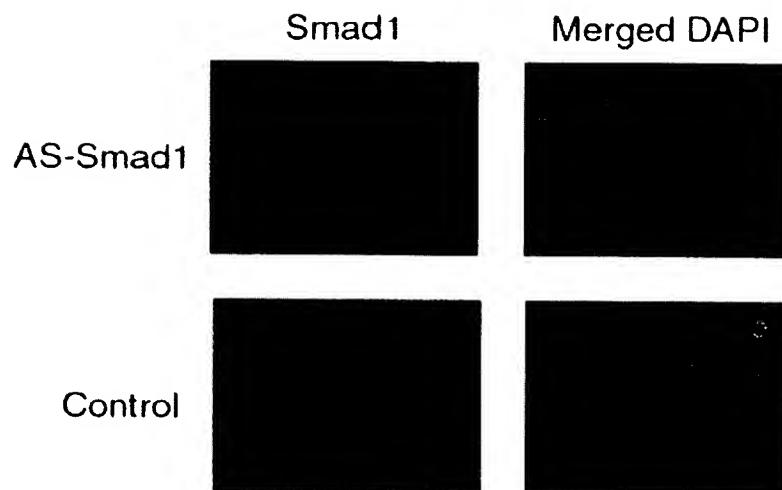
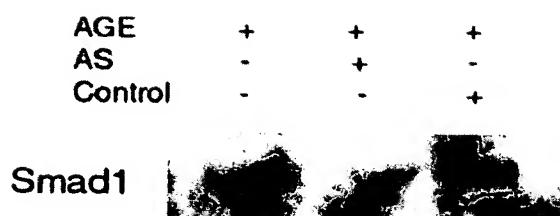


Fig. 3

**A**



**B**



**C**

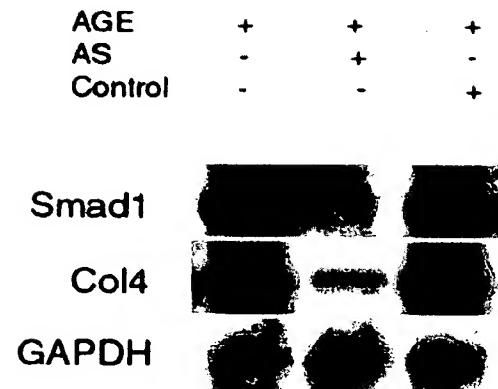


Fig. 4

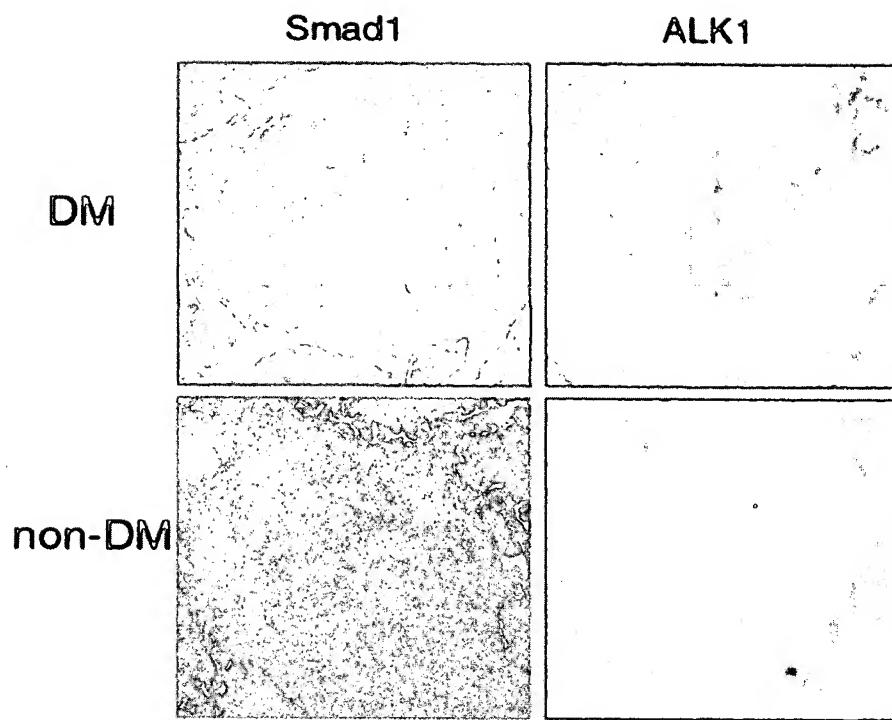


Fig. 5

<i>Array analysis (AGES simulation on mMC)</i>	
	<i>AGE/BSA Ratio AGE/BSA(color swap)</i>
<b><i>BMP4</i></b>	21.25
<b><i>BMPI</i></b>	2.06
<b><i>SMAD1</i></b>	1.27
<b><i>RAGE</i></b>	1.15
<b><i>TGFbRII</i></b>	0.49
<b><i>TGFbRI</i></b>	1.15
<b><i>ALK3</i></b>	1.18
<b><i>BMPRII</i></b>	2.06

Fig. 6

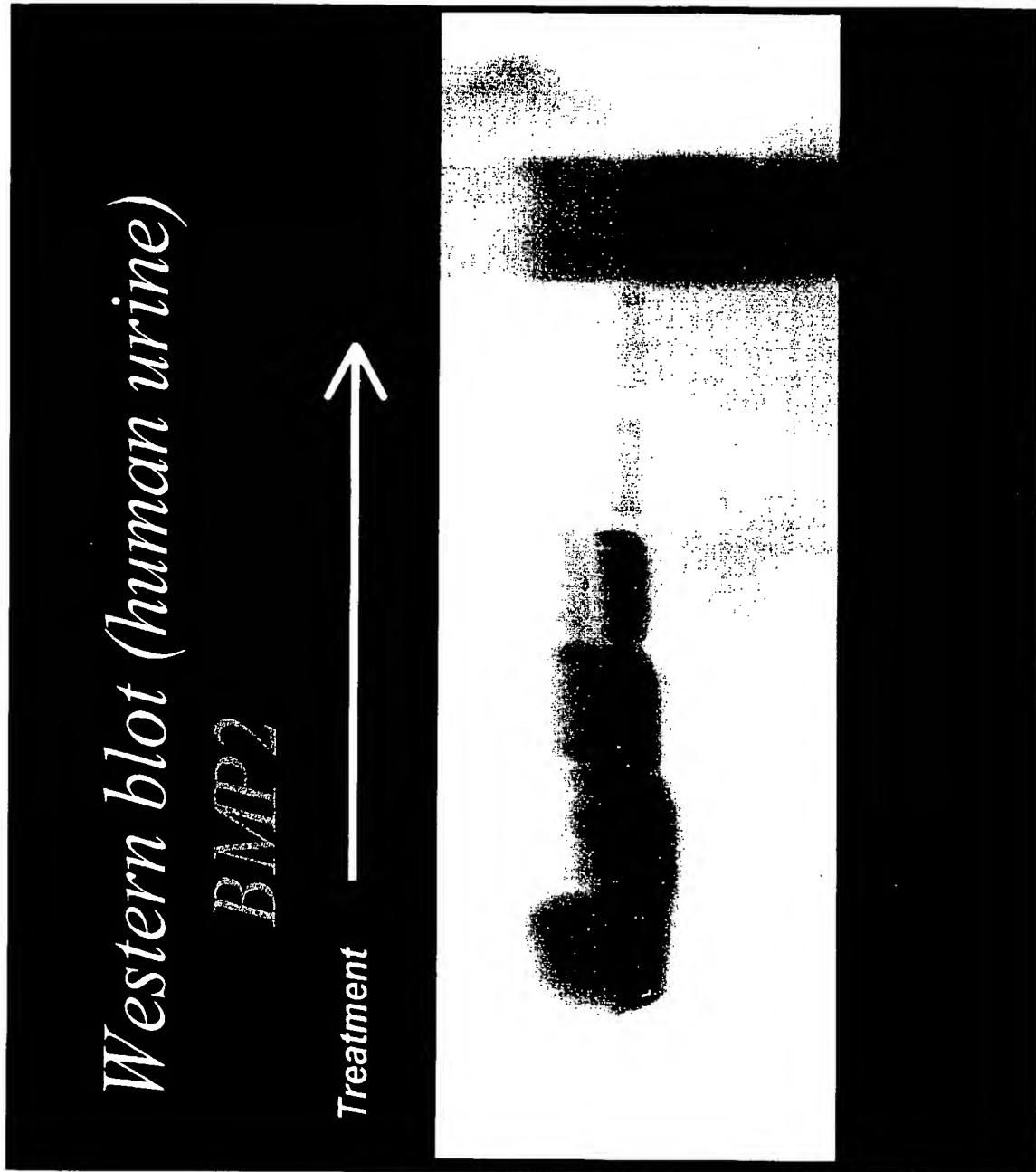


Fig. 7

*Western blot (TGF $\beta$  time course)*

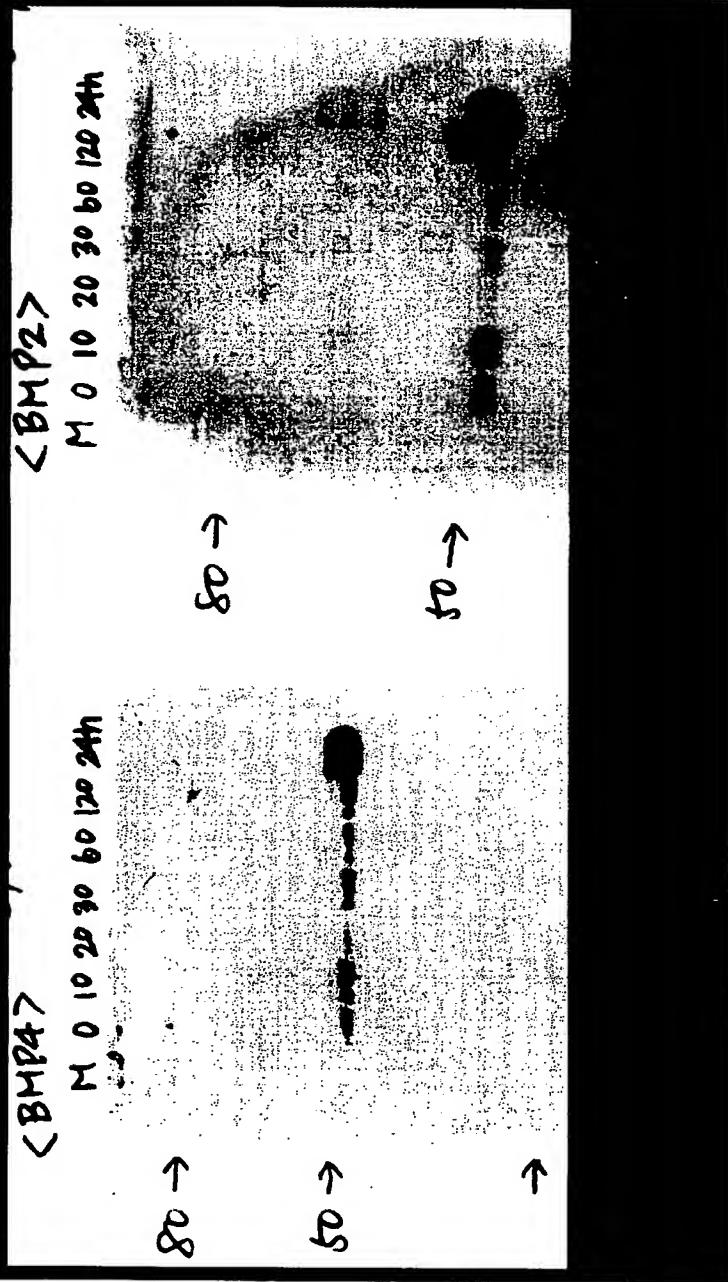


Fig. 8

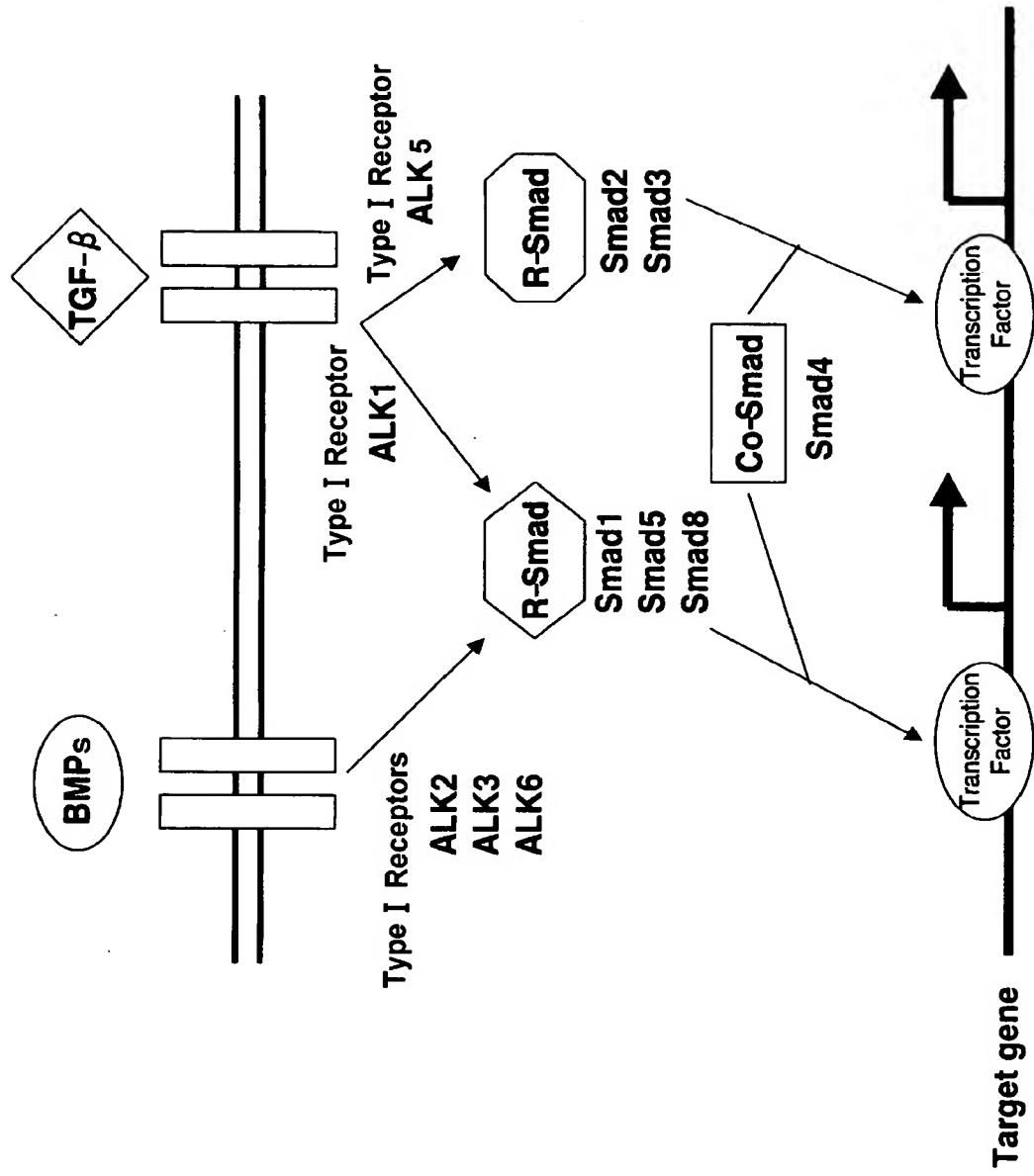


Fig. 9

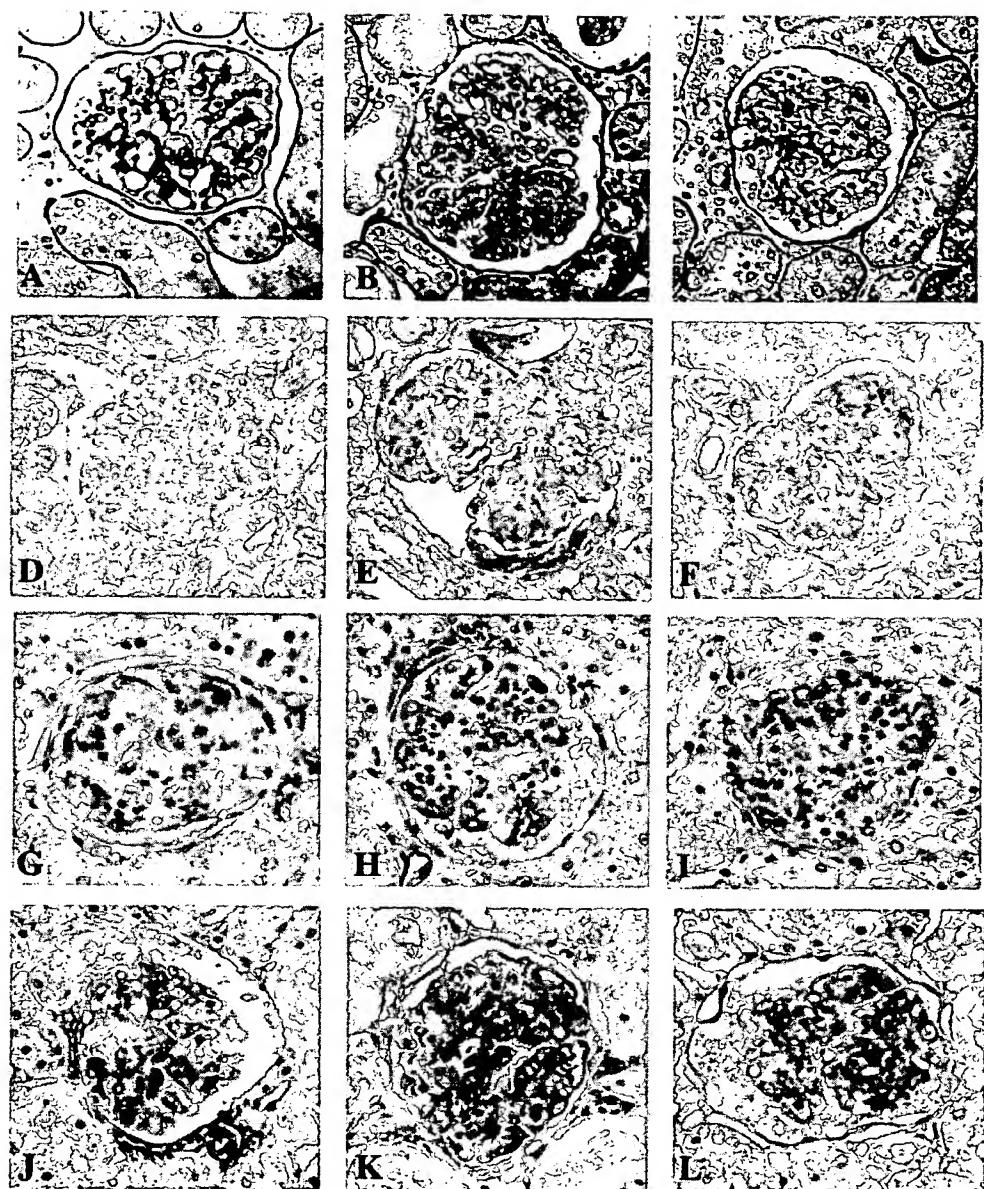


Fig. 10

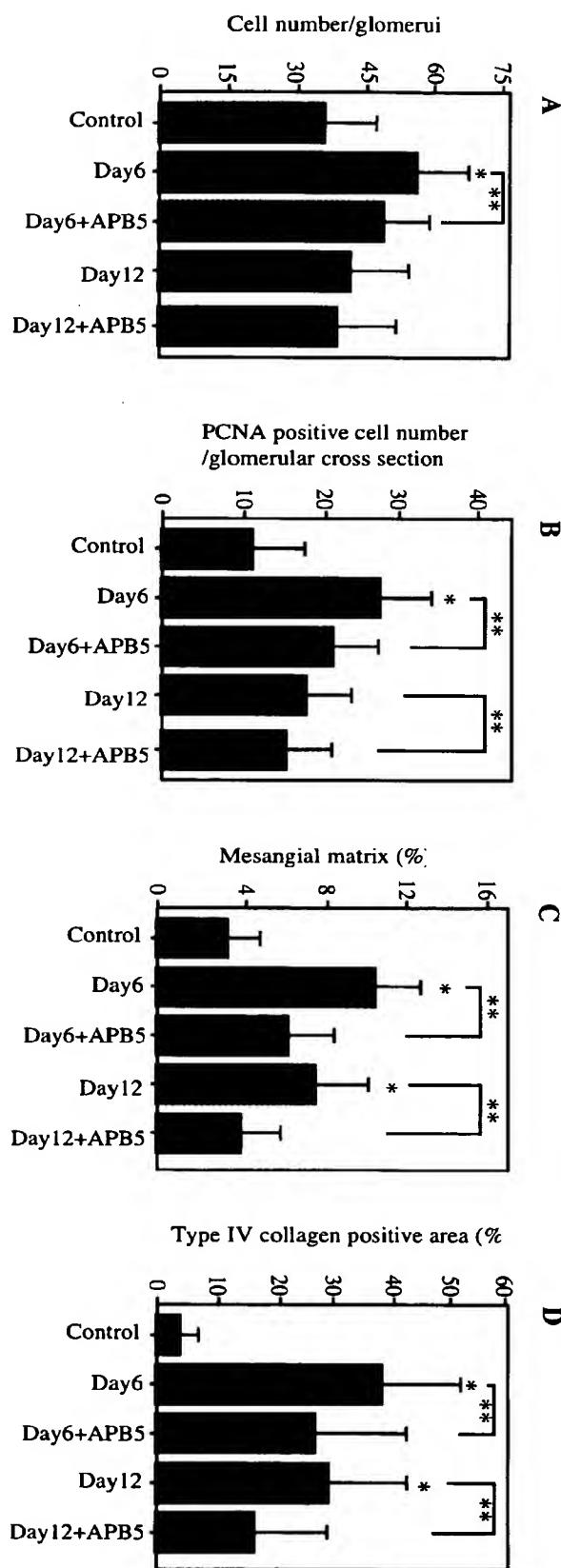


Fig. 11

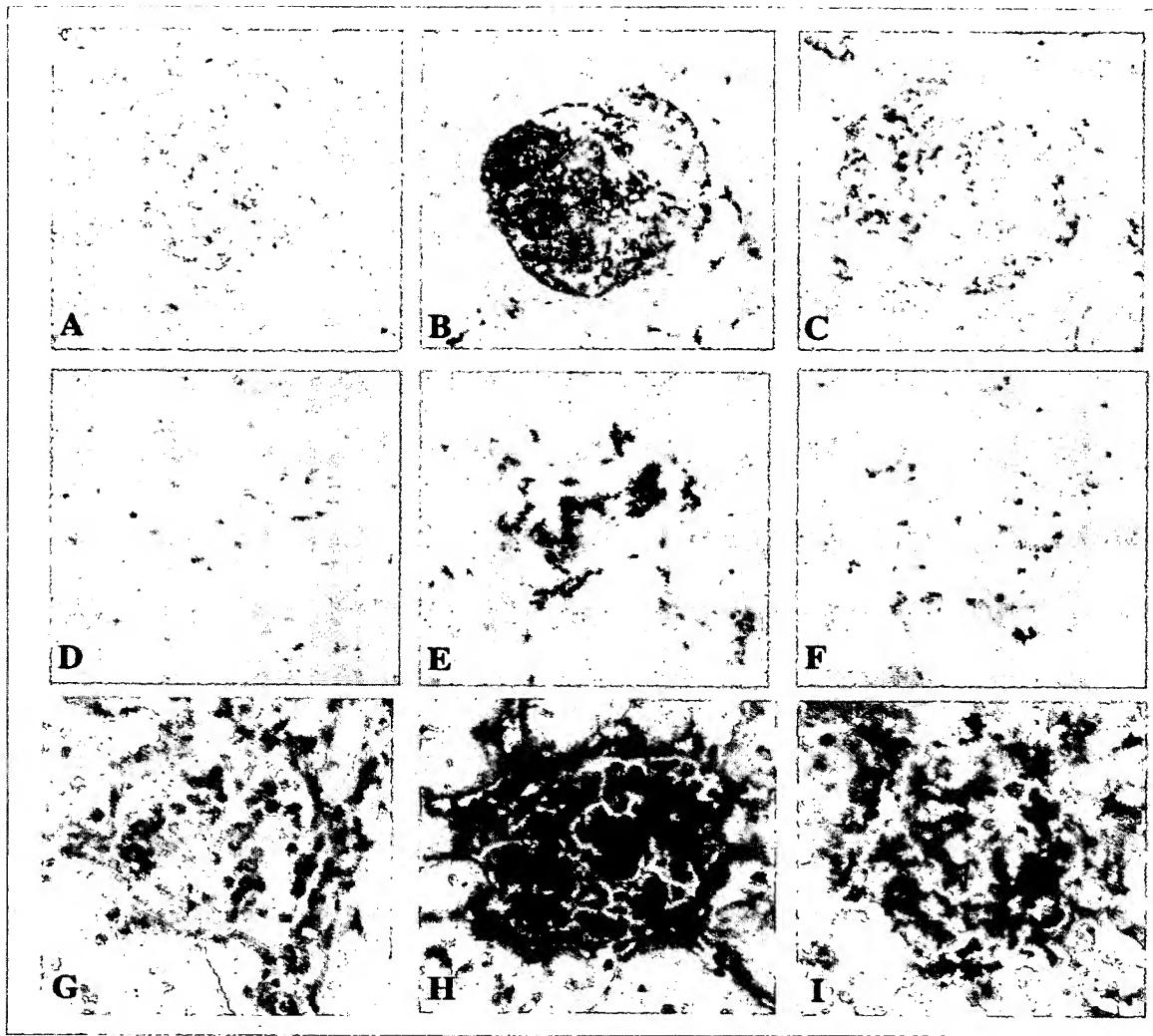


Fig. 12

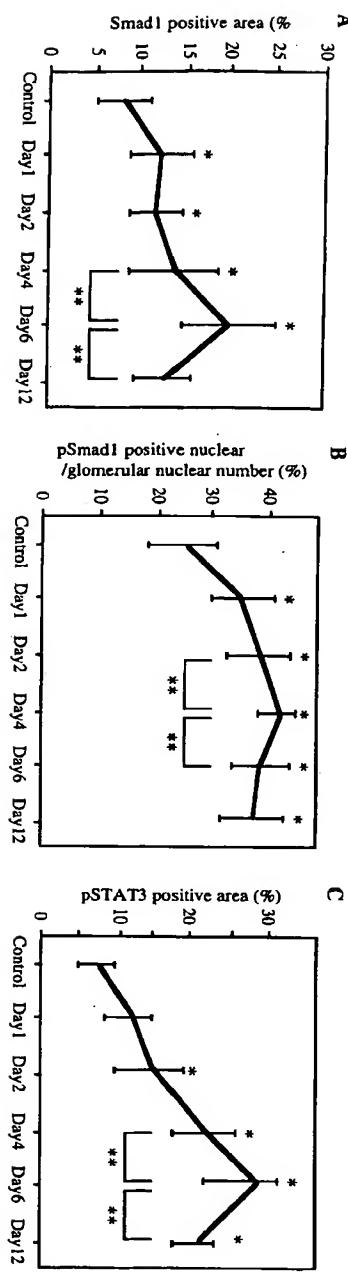


Fig. 13

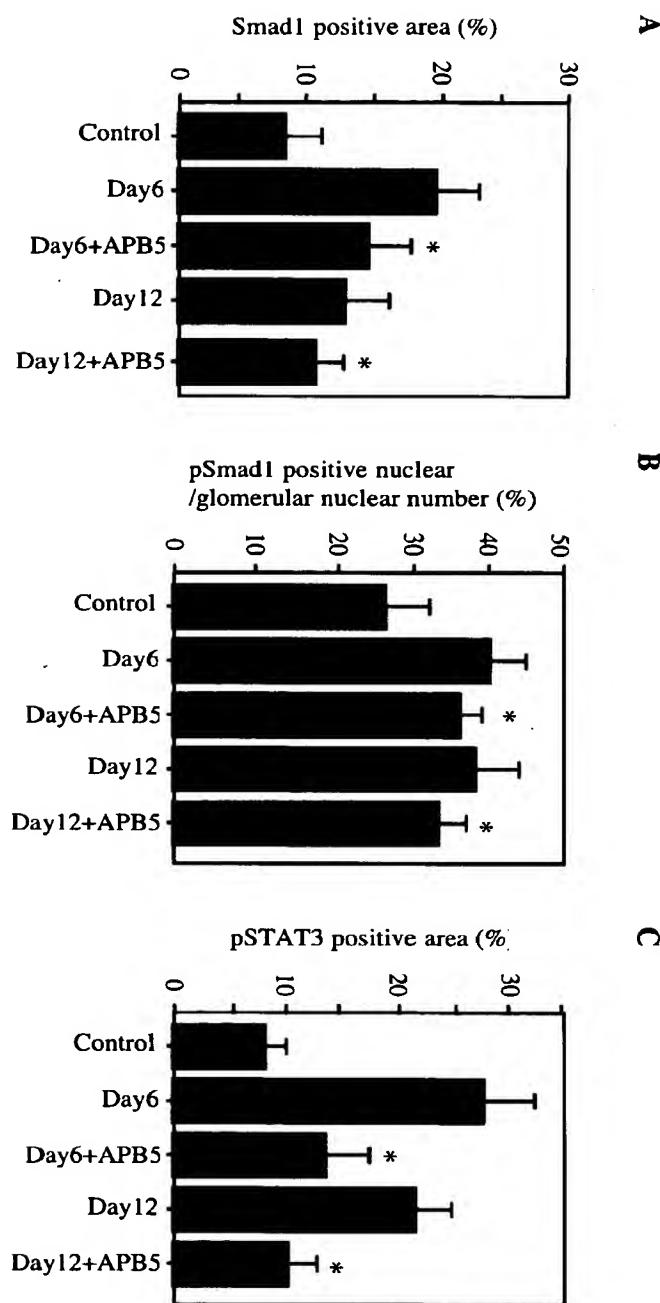


Fig. 14

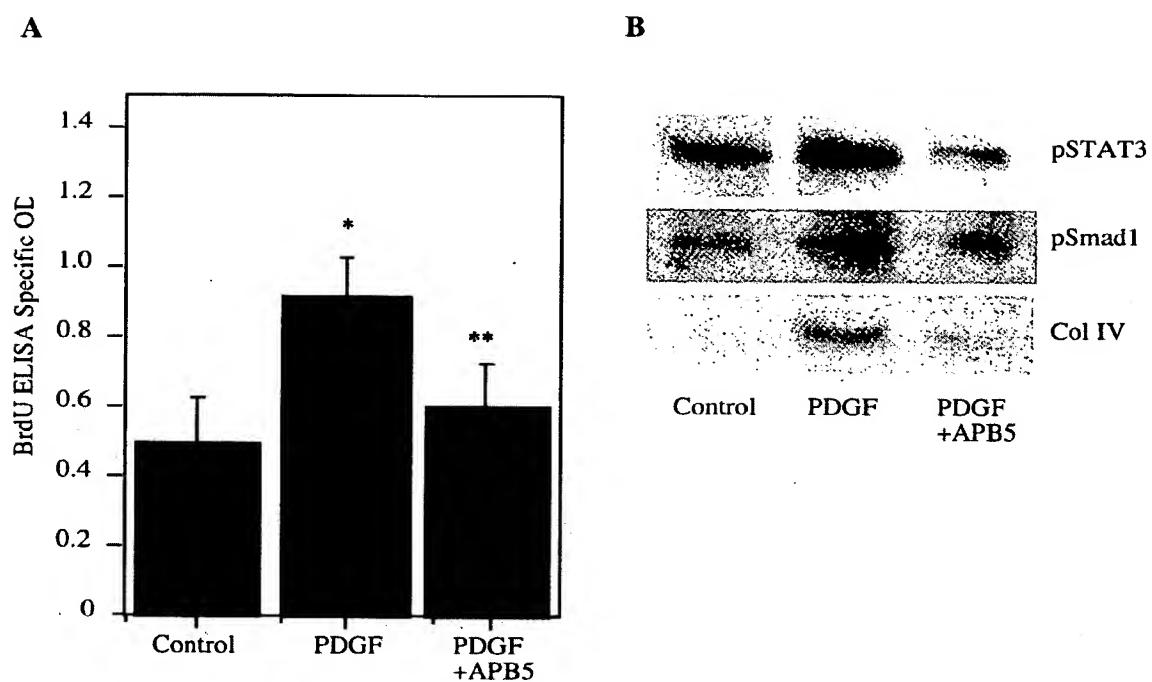


Fig. 15

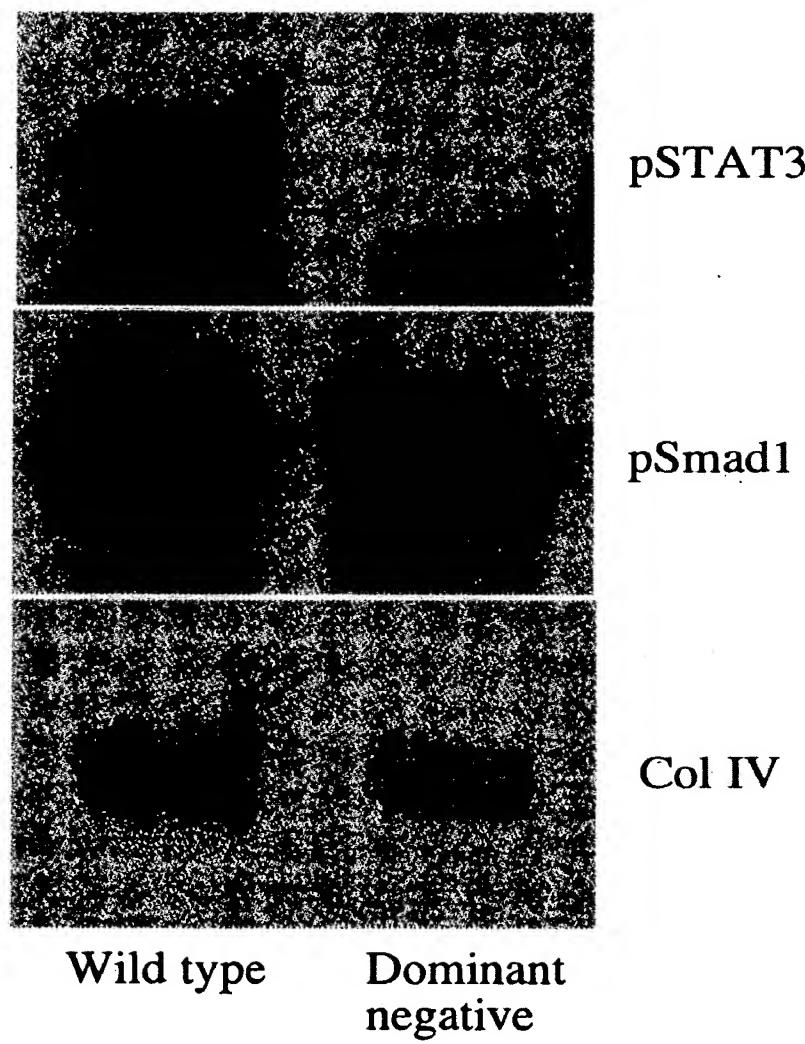


Fig. 16

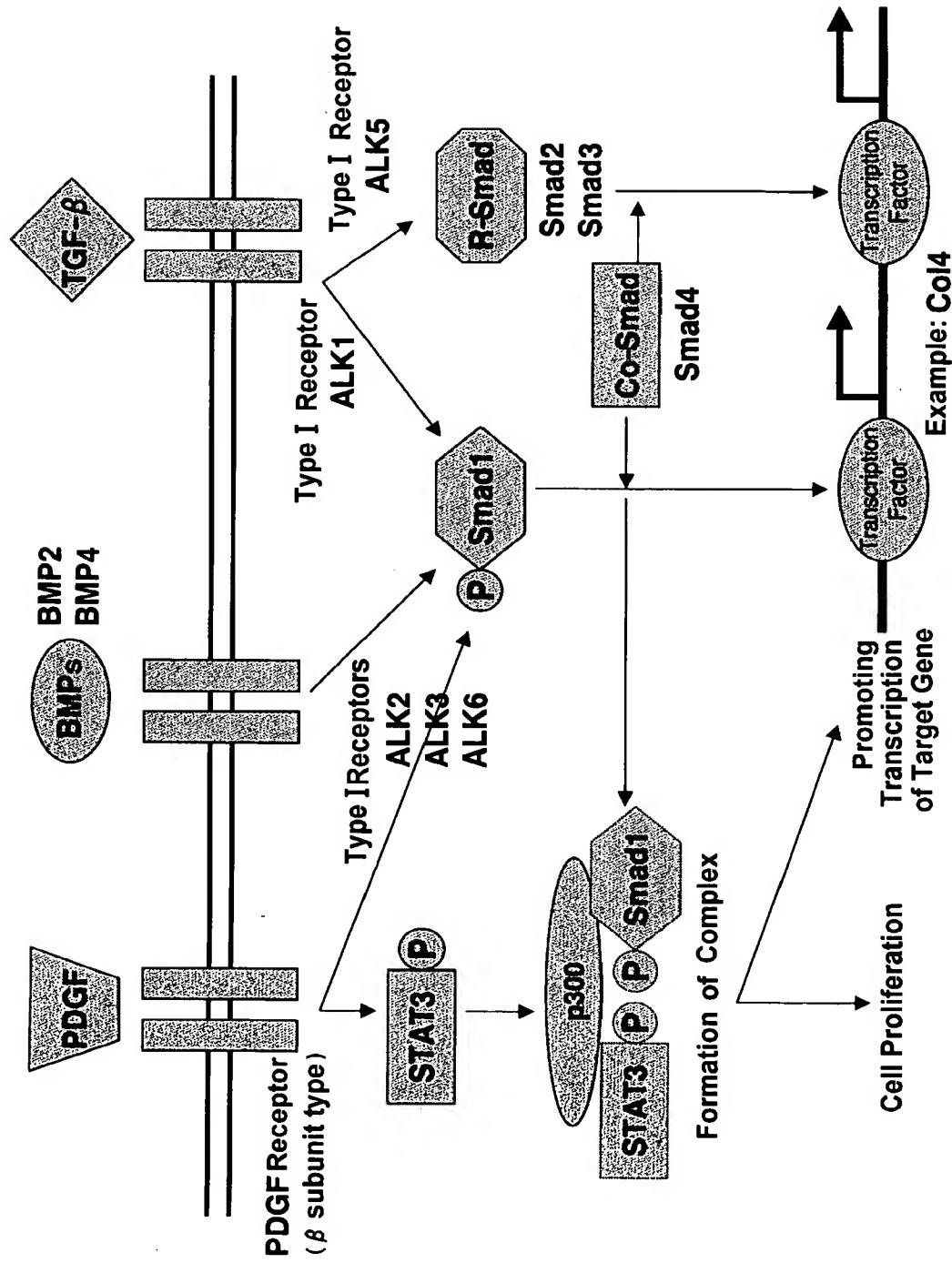


Fig. 17

**Western blot (human urine ALK-1)**

M 1 2 3 4 5 6 7 8 9 10



- Lanes 1-5: diabetic nephropathy
- Lane 6: mitochondrial disease in which diabetes is complicated with sclerosing, renal proliferative disease
- Lanes 7-8: diabetes + nephritis (without sclerosis)
- Lanes 9-10: normal

Fig. 18

## Western blot (human urine ALK-1)

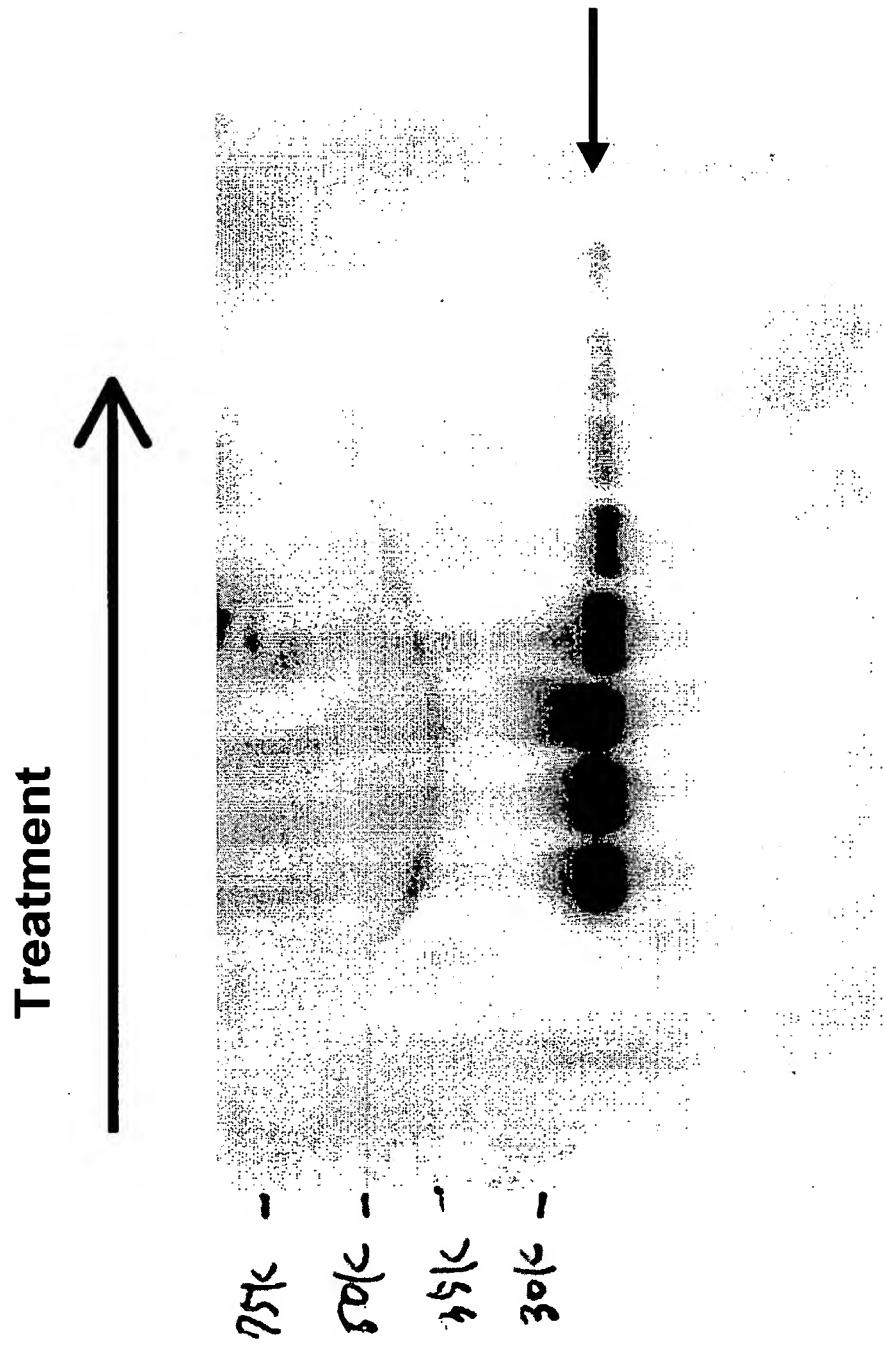
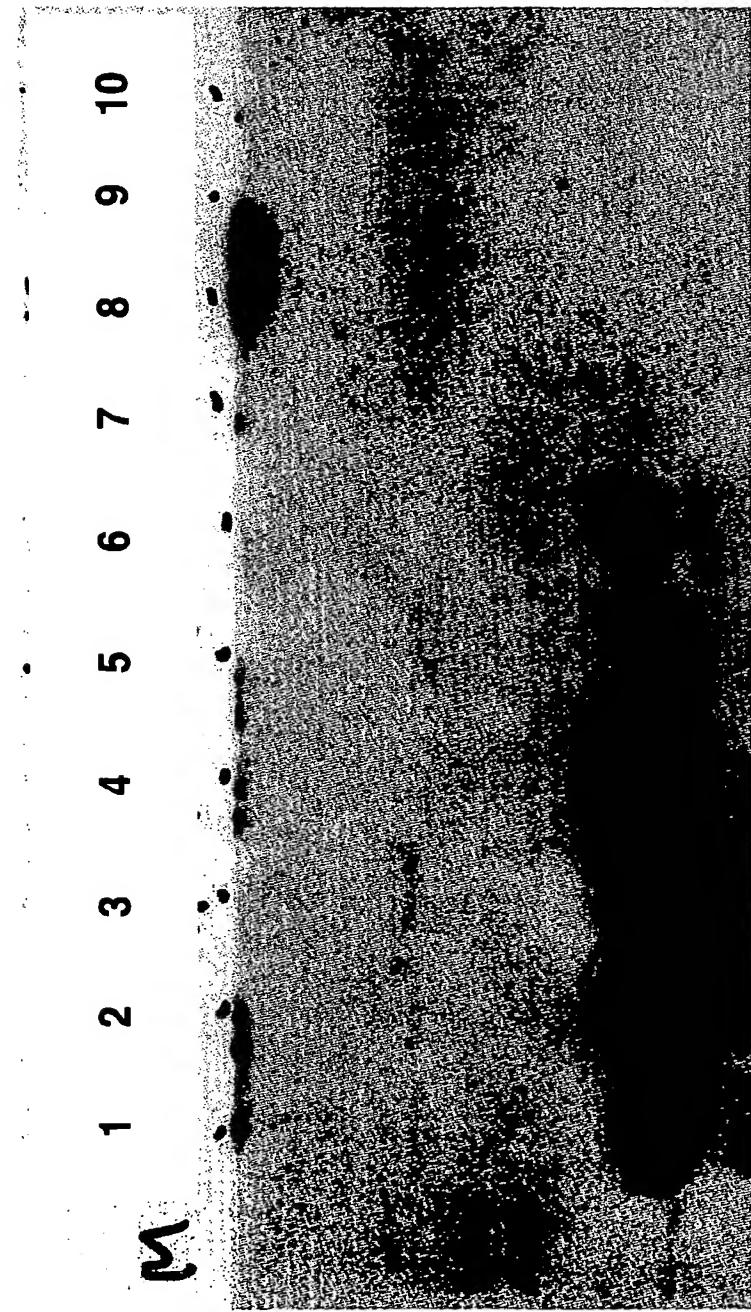


Fig. 19

**Western blot (human urine Smad1)**



Lanes 1-5: diabetic nephropathy

Lane 6: mitochondrial disease in which diabetes is complicated with  
sclerosing, renal proliferative disease

Lanes 7-8: diabetes + nephritis (without sclerosis)

Lanes 9-10: normal